



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

curve of the rail, it being a great advantage in Mr. Palmer's carriage that the boxes are so close to the rail, and so little top-heavy, that a considerable inequality of weight produces very little disturbance of the equilibrium. The bottom of the carriage has a joint at one-third of its length, and is held up at this by the hooks *k k*; by removing these, the contents may be let out: the fixed portion of bottom is made sloping, so that it may be readily emptied.

No. XV.

COCK FOR BOTTLING WINE.

The LARGE SILVER MEDAL was presented to Mr. J. CASTELL, 24, Dartmouth Street, for his Duplex Cock for Bottling Wine; a Model of which has been placed in the Society's Repository.

24, Dartmouth Street, Westminster,
6th March, 1828.

SIR,

I do myself the honour of sending, for the inspection of the Society of Arts, one of my duplex bottling cocks. I have now had ten years' practice in the bottling trade, and have discovered that the ordinary mode of operation is attended with not only a great loss of liquor and waste of time, but also with considerable manual labour. My chief study, in the construction of this cock, has been to obviate these difficulties, in which I have been successful. Having satisfied myself of its efficacy, the first person I

shewed it to was my employer, Lytton George Kier, Esq., who expressed himself highly satisfied with my invention, and desired it to be used generally in his cellar. I next introduced it to Messrs. Bellamy, Smith, and Bellamy, who immediately ordered it to be used in their cellar; and I had the satisfaction of hearing from their men, that after a few minutes' practice, they could use them without spilling a single drop of wine, and with great ease to themselves, which can also be attested by others of the trade. Should you, Sir, think it worthy the attention of the Society, I shall feel gratified in attending to explain its construction, whenever they may think proper to command.

I am, Sir, &c. &c.

A. AIKIN, Esq.

JOHN CASTELL.

Secretary, &c. &c.

Reference to the Engraving.

Figs. 12 and 13, Plate VII. are a side and front view of the apparatus; *a* is the common cock; *b* is a pipe connected with it by an union-joint *c*; *d d* are lateral pipes springing from the boss *e*, which screws on to the pipe *b*; the ends of the lateral pipes are cock plugs, on which the barrels *f f* turn, and from which the entering pipes *g g* project; *h h* are stops limiting the motion of the barrels. Each of the entering pipes may therefore be considered as at the same time the lever, handle, and spout of a cock, which opens when the lever is depressed, and closes when the lever is raised.

These lever handles being first both of them raised, an empty bottle is inverted over one of them, and is immediately brought down. The lever being thus depressed, the

cock is opened, and the wine flows through it into the bottle. When the bottle is half full, an empty bottle is applied to the other lever handle as above described. When this latter bottle is half filled, the first will be full : its pipe is then to be closed, by placing the finger over it ; and on raising the pipe or lever, all farther discharge of the wine is stopped. The full bottle being then removed, is to be replaced by an empty one. Thus, a considerable saving of time is effected, and the lees of the wine are less liable to be disturbed than by the use of the common cock ; for, in the latter case, there is a sudden alternation of flow and complete stoppage ; whereas, in the former case, there is a perpetual though not uniform flow.

CERTIFICATE.

SIR,

*Bridge Street, Westminster,
26th March, 1828.*

Mr. John Castell, who has presented for the inspection of the Society of Arts a duplex bottling cock, has been in my service upwards of ten years, during which time he has had considerable practice in bottling off wines and spirits.

The bottling cock offered to your notice I have seen in frequent use : it not only saves time, but a waste of wine, which invariably takes place in the cellar tub, by the cocks now used in the usual method. I have desired this invention of Mr. Castell's to be used in my vaults.

I am, Sir, &c. &c.

A. AIKIN, Esq.

LYTTON GEO. KIER.

Secretary, &c. &c.